

Analyses of the effects of global change on human health and welfare and human systems. A report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research

Author(s): Gamble JL, Ebi KL, Grambsch AE, Sussman FG, Wibanks TJ

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Abstract:

This report -- Synthesis and Assessment Product 4.6 (SAP 4.6) -- focuses on impacts of global climate change, especially impacts on three broad dimensions of the human condition: human health, human settlements, and human welfare. SAP 4.6 has been prepared by a team of experts from academia, government, and the private sector in response to the mandate of the U.S. Climate Change Science Program's Strategic Plan (2003). The assessment examines potential impacts of climate change on human society, opportunities for adaptation, and associated recommendations for addressing data gaps and near-and long-term research goals.

Source: http://downloads.globalchange.gov/sap/sap4-6/sap4-6-final-report-all.pdf

Resource Description

Early Warning System: M

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure: M

weather or climate related pathway by which climate change affects health

Air Pollution, Ecosystem Changes, Extreme Weather Event, Food/Water Quality, Food/Water Quality, Food/Water Security, Glacier/Snow Melt, Indoor Environment, Precipitation, Sea Level Rise, Temperature

Air Pollution: Allergens, Ozone, Particulate Matter

Extreme Weather Event: Drought, Flooding, Hurricanes/Cyclones, Landslides, Wildfires

Food/Water Quality: Biotoxin/Algal Bloom, Pathogen

Food/Water Security: Agricultural Productivity

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Temperature: Extreme Cold, Extreme Heat, Fluctuations

Geographic Feature: M

resource focuses on specific type of geography

Desert, Freshwater, Ocean/Coastal, Urban, Other Geographical Feature

Other Geographical Feature: Forests

Geographic Location:

resource focuses on specific location

United States

Health Co-Benefit/Co-Harm (Adaption/Mitigation): ■

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: M

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Infectious Disease, Injury, Morbidity/Mortality, Respiratory Effect, Other Health Impact

Infectious Disease: Airborne Disease, Foodborne/Waterborne Disease, Vectorborne Disease, Zoonotic Disease

Airborne Disease: Coccidioidomycosis (Valley Fever), Influenza

Foodborne/Waterborne Disease: Campylobacteriosis, Cryptosporidiosis, E. coli, Giardiasis, Leptospirosis, Norovirus, Rotavirus, Salmonellosis, Vibrioses, Other Diarrheal Disease

Foodborne/Waterborne Disease (other): Naegleria fowleri

Vectorborne Disease: Flea-borne Disease, Mosquito-borne Disease, Tick-borne Disease

Flea-borne Disease: Plague

Mosquito-borne Disease: Dengue, Viral Encephalitis, Viral Encephalitis, West Nile Virus

Tick-borne Disease: Ehrlichiosis, Lyme Disease

Zoonotic Disease: Hantavirus Pulmonary Syndrome

Respiratory Effect: Asthma, Chronic Obstructive Pulmonary Disease, Upper Respiratory Allergy, Other Respiratory Effect

Respiratory Condition (other): Allergic rhinitis

Other Health Impact: Heat stress; Heat stroke; Hospitalizations

mitigation or adaptation strategy is a focus of resource

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Adaptation

Model/Methodology: ™

type of model used or methodology development is a focus of resource

Exposure Change Prediction, Outcome Change Prediction

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Children, Elderly, Low Socioeconomic Status, Pregnant Women, Racial/Ethnic Subgroup, Workers

Other Racial/Ethnic Subgroup: Minority populations

Other Vulnerable Population: Immunocompromised; Uninsured; Pre-existing medical conditions

Resource Type: **№**

format or standard characteristic of resource

Review

Resilience: M

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Socioeconomic Scenario: Other Socioeconomic Scenario

Other Socioeconomic Scenario: US Census Projections

Timescale: M

time period studied

Long-Term (>50 years)

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content